

Appl. No. 10/606,905  
Docket No.: H1799-00187  
Reply to Office Action dated 09/09/2004

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. – 12. (Cancelled)

13. (Original) A heat pipe heat spreader comprising:  
an enclosure having an internal surface and a plurality of post projecting from said internal surface wherein said posts are (i) arranged in a selected pattern that is more dense in one portion of said internal surface, and (ii) coated with a sintered wick powder;

a working fluid disposed within said enclosure; and

a grooved wick disposed on at least a portion of said internal surface and including a plurality of individual particles having an average diameter, said grooved wick including at least two spaced-apart lands that are in fluid communication with one another through a particle layer disposed between said at least two spaced-apart lands that comprises less than about six average particle diameters.

14. (Original) A heat pipe according to claim 13 wherein said particle layer comprises a thickness that is less than about three average particle diameters.

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15. (Original) A heat pipe according to claim 13 wherein said particles are formed substantially of copper.

16. (Original) A heat pipe according to claim 13 wherein six average particle diameters is within a range from about .005 millimeters to about .5 millimeters.